

**CVP WATER ASSOCIATION**  
Summary Overview of FY98 CVPIA Annual Work Plan

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Reference/ Project #	Program Description	FY 1998 Program			Program Accomplishment thru (date)	percent	Est FY 98 Expenditures			
		Likely	Contingent	Total			Total	pay/benefits	contracts	overhead
<u>3406(b)(1) Anadromous Fish Restoration Program</u>										
Proj A-1	McAmis property acquisition and restoration on upper Butte Creek. Project involves acquisition and restoration by University Foundation (CSU-Chico) of 90 acres along 0.8 miles of Butte Creek.	125,000		125,000						
Proj A-2	L&L and Gaumer easement acquisition. Project involves a riparian easement acquisition located on Deer Creek.	117,000		117,000						
Proj A-3	Restore degraded riparian habitat sections on lower Mill Creek. Project involves a restoration partnership with a private landowner along Mill Creek.	60,000		60,000						
Proj A-4	Stanislaus River Channel Restoration, Wilkins site. Project involves rebuilding a 0.4 mile reach affected by aggregate mining.	1,038,000		1,038,000						
Proj A-5	Tuolumne River mining reach restoration. Project involves restoration of native riparian vegetation.	1,311,000		1,311,000						
Proj A-6	Replenish and cleanse gravel in areas of the Mokelumne River. Project involves the placement of approximately 5,000 cubic yards of gravel at 6 or more spawning sites.	80,000		80,000						
Proj A-7	Acquisition of Millar Farms Inc., Glenn County. Project involves a riparian easement of 122 acres to improve watershed results on the upper Sacramento River.	167,000		167,000						
Proj C-1	Rebuild fish ladder and screen on Gorill Dam on Butte Creek. Project involves upgrading existing fish ladder and screen.	688,000		688,000						
Proj C-2	Complete initial engineering for rebuilding fish ladders at Wildcat Diversion Dam on North Fork Battle Creek and Inskip Diversion Dam, South Fork Battle Creek.	637,000		637,000						
Proj C-3	Modify Daguerre Point Dam fish ladder on the Yuba River. Project involves selection of a preferred alternative including a preliminary EA, and final design of the concept.	360,000		360,000						
Proj D-1	Juvenile salmon and steelhead emigration monitoring at Knights Landing. Project involves monitoring the timing, abundance, and disposition of juvenile chinook salmon and steelhead emigrating into the lower Sacramento Rv and Delta.	41,000		41,000						
Proj D-2	CWT tagging of all late-fall production from Coleman NFH. Project involves marking all late-fall-run chinook salmon production released at Coleman (est 1M) so that unmarked winter run fish are not confused with true winter run juveniles.	56,000		56,000						

**CENTRAL VALLEY PROJECT  
WATER ASSOCIATION  
1521 "I" STREET  
SACRAMENTO, CA 95814**

E-029388

Reference/ Project #	Program Description	FY 1998 Program			Program Accomplishment thru (date)	percent	Est FY 98 Expenditures			
		Likely	Contingent	Total			Total	pay/benefits	contracts	overhead
Proj D-3	Use of otoliths to evaluate the role of Delta rearing in the life history of Central Valley Chinook Salmon and Steelhead. Project is a pilot study of the use of otoliths.	13,000		13,000						
Proj D-4	Fall-run chinook salmon hatchery smolt mark-recapture survival experiment. The exact study to be completed in 1998 has not yet been identified.	100,000		100,000						
Proj D-5	Late fall run hatchery smolt Delta mark-recapture survival experiment. Project involves evaluating the benefits of lower export/inflow ratios for juvenile chinook salmon migrating through the Delta during the Fall.	36,000		36,000						
Proj D-6	Indexing fall run smolt survival in the Delta. Project involves a middle-May release of a Control group of fall-run chinook salmon smolt at Port Chicago or Benicia for purposes of estimating Delta survival.	40,000		40,000						
Proj D-7	Stanislaus River-Juvenile salmon RST monitoring. Project involves continuation of work started in 1994 to estimate the number and size of juvenile salmon emigrating from the river.	135,000		135,000						
Proj D-8	Evaluate small intermittent tributaries to the upper mainstem Sacramento River to determine if they serve as rearing habitat for Sacramento River chinook salmon.	95,000		95,000						
Proj D-9	In stream flow studies-Sacramento, American, and Merced Rivers. Project involves the development of information to reduce flow fluctuations to optimize anadromous salmonid habitat for spawning and rearing.	650,000		650,000						
Proj D-10	Butte Creek spring-run chinook juvenile life history evaluation. Project involves the collection and marking of juvenile spring-run chinook to better understand their contribution to the fishery.	86,000		86,000						
Proj D-11	Upper Sacramento River wild fish (chinook salmon) tagging. Project assesses the feasibility of capturing, holding, and successfully marking naturally produced fall-run chinook salmon.	48,000		48,000						
Proj D-12	Expanded winter-run carcass survey, upper mainstem Sacramento River. Project involves collecting carcasses of winter-run chinook salmon to estimate escapement and to collect tissue samples for baseline genetic monitoring.	21,000		21,000						
Proj D-13	Winter-run chinook salmon genetic monitoring. Project involves continuation of genetic analysis of the natural population of endangered winter-run chinook salmon.	200,000		200,000						
Proj D-14	Battle Creek surveys and monitoring. Project involves carcass surveys and video monitoring to assess the numbers of adult winter and spring-run chinook in Battle Creek.	40,000		40,000						
Proj F-1	Continue development of a comprehensive Deer Creek watershed management strategy.	160,000		160,000						

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E-1029389

Reference/ Project #	Program Description	FY 1998 Program			Program Accomplishment		Est FY 98 Expenditures			
		Likely	Contingent	Total	thru (date)	percent	Total	pay/benefits	contracts	overhead
Proj F-2	Continue development of Butte Creek Watershed Conservancy management strategy.	191,000		191,000						
Proj F-3	Continue to develop a regional conservation plan for the Battle Creek watershed to restore naturally spawning populations of winter and spring-run chinook salmon and steelhead.	10,000		10,000						
Cont A-1	Peek riparian easement acquisition on Deer Creek.		506,000	506,000						
Cont A-2	Porter riparian easement acquisition on Deer Creek.		423,000	423,000						
Cont A-3	Soski riparian easement acquisition on Deer Creek		1,315,000	1,315,000						
Cont A-4	Packard Island riparian easement acquisition (309 acres).		936,000	936,000						
Cont A-5	Stone riparian easement acquisition-Glenn County (70 acres).		187,000	187,000						
Cont A-6	Flynn riparian easement acquisition Glenn County (80 acres).		800,000	800,000						
Cont A-7	Identify and evaluate opportunities for benefits of restoring riparian and side-channel habitats to improve salmonid habitat conditions in the Yuba River.		40,000	40,000						
Cont A-8	Feeney/Ken Lerch Ranch riparian easement acquisition-Glenn County (182 acres).		447,000	447,000						
Cont D-1	Summer American Shad Trawling at Sacramento and Chipp's Island between July 1 and August 30.		25,000	25,000						
Cont D-2	Expanded juvenile chinook salmon and steelhead monitoring at Red Bluff Diversion Dam.		132,000	132,000						
Cont D-3	Identification of green sturgeon spawning sites and evaluation of the availability, adequacy and use of habitat by adult sturgeon.		50,000	50,000						
Cont D-4	Tag (CWT) one million fall-run chinook salmon to determine disease survival contribution to the population.		160,000	160,000						
Cont D-5	Upper Sacramento River wild fish (chinook salmon) tagging.		44,000	44,000						
Cont F-1	Develop a comprehensive Big Chico Creek watershed management survey.		277,000	277,000						
<b>Total Sect 3406 (b)(1) AFRP</b>		<b>6,505,000</b>	<b>5,342,000</b>	<b>11,847,000</b>			<b>8,250,000</b>	<b>6,505,000</b>	<b>1,745,000</b>	

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3406(b)(1) Other Central Valley Project Mitigation

Proj 1	Gabbro Soils. Implementation and protection of Pine Hill Ecological Reserve, El Dorado County, 5 listed plant species.	500,000	500,000
Proj 2	Riparian Brush Rabbit and Riparian Woodrat. Monitor species in Caswell State Park and develop a restoration plan for Christman Island.	25,000	25,000
Proj 3	Red-legged frog. Contribute to multi-party acquisition of private	75,000	75,000







Reference/ Project #	Program Description	FY 1998 Program			Program Accomplishment thru (date)	percent	Est FY 98 Expenditures				
		Likely	Contingent	Total			Total	pay/benefits	contracts	overhead	other
	Total	1,250,000	0	1,250,000			1,250,000	160,000	1,057,000	3,000	30,000
<u>3406(b)(20) Hamilton City Pumping Plant Fish Facility-GCID</u>	A-1 Initiate construction on new fish screens A-2 Purchase and delivery of sheet piling A-3 Complete mitigation and monitoring plan A-4 Initiate measures for fish screen extension construction A-5 Complete the EIR/EIS and ROD/NOD A-6 Task order and final design of fish screen extension	2,575,000 600,000 47,000 115,000 115,000 175,000		2,575,000 600,000 47,000 115,000 115,000 175,000			3,627,000	440,000	2,647,000	490,000	50,000
<u>3406(b)(21) Anadromous Fish Screen Program (AFSP)</u>	1 Reclamation District 108-Sacramento River- 2 Reclamation District 1004-Sacramento River 3 Gorill Land Co.-Butte Creek 4 Adams Dam-Butte Creek 5 City of Sacramento-Sacramento River 6 Natomas Mutual Water Co-Sacramento River	3,800,000 0 100,000 508,000 0 250,000		3,800,000 0 100,000 508,000 0 250,000			5,000,000	400,000	4,543,000	57,000	0
<u>3406(b)(22) Agricultural-Waterfowl Incentive Program</u>	A-1 Announce implementation of program/solicit proposals A-2 Review proposals & select lands for participation A-3 Coordinate flood-up, duration and release of water A-4 Monthly monitoring of enrolled agricultural fields	7,000 874,000 5,000 10,000		7,000 874,000 5,000 10,000			1,000,000	110,000	874,000	4,000	12,000
<u>3406(d)(1-5) Long-term Conveyance of Refuge Water</u>	IA-1 Sacramento NWR-Complete NEPA/CEQA IB-1 Sacramento NWR-design data collection IC-1 Sacramento NWR-construction ID-1 Sacramento NWR-acquire right of way IE-1 Sacramento NWR-biological assessments & opinion IF-1 Sacramento NWR-obtain permits IG-1 Sacramento NWR-public involvement site specific constr IH-1 Sacramento NWR-construction methods review IIA-1 Mendota WA-complete NEPA/CEQA IIA-1 Mendota WA-design data collection IIA-1 Mendota WA-public involvement site specific construction IIA-1 Mendota WA-biological assessments & opinion for ESA IIA-1 Mendota WA-Value analysis of feasibility cost estimates	50,000 50,000 6,300,000 400,000 100,000 0 25,000 99,000 300,000 50,000 25,000 100,000 25,000		50,000 50,000 6,300,000 400,000 100,000 0 25,000 99,000 300,000 50,000 25,000 100,000 25,000			9,403,000	749,000	7,984,000	420,000	250,000
<u>3406(d)(1-5) Refuge Water Supply Program</u>	A-1 Partially fund Select conveyance contracts A-2 Administer tech services contract for inter-agency prog (ICP) A-3 Negotiate long-term contracts w/FWS, DFG and GWD	no est no est no est 0		0 0 0 0			2,000,000	72,441	1,881,123	46,436	0
<u>3406(d)(1-5) San Joaquin Basin Action Plan (conveyance facilities)</u>	A-1 Cottonwood Rd Lateral	1,224,000		1,224,000							

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Reference #	Project Description	FY 1998 Program Accomplishments					
		FY 1998 Program	Contracting	Total	Intra (date)	Percent	Other
A-2	Design of O'Brien's Canal	816,000	816,000	816,000			
A-3	Design of O'Brien's Canal	332,000	332,000	100,000	100,000		
A-4	Design headworks for Spillway Ditch	100,000	100,000				
A-5	Design headworks for Spillway Ditch	252,000	252,000	708,000	708,000		
A-6	Replace headworks of Spillway Ditch	708,000					
A-7	Improve GWWD facilities	910,000					
A-8	Improve San Luis Canal Co. facilities	165,000					
3406(g)	Eco-logical Water System Operations Models	4,580,000	0	4,580,000			
A-1	Update CGMS data	20,000	20,000	150,000	120,000		
A-2	Provide documentation of Hydrologic Models	30,000	30,000	30,000	10,000		
A-3	Develop graphical user interface for SANASM model	150,000	150,000	120,000	10,000		
A-4	Develop daily operating model	30,000	30,000	30,000	10,000		
A-5	Develop Whiskerdown Culverts Temperature model	120,000	120,000	10,000	10,000		
B-1	Develop Whiskerdown Culverts Flow model	30,000	30,000	30,000	10,000		
B-2	Perform Whiskerdown Velocity measurements	10,000	10,000	10,000	0		
C-1	Develop Whiskerdown Velocity measurements	5,000	5,000	5,000	0		
D-1	Develop Salmonid model analysis	0	0	0	0		
E-2	Evaluate weband and natural channel salmon population model	0	0	0	0		
E-3	Develop 3-D estuarine hydrodynamic and salt transport model	60,000	60,000	60,000	0		
3408(h)	Land Retirement Program	4,000,000	320,000	395,000	161,000	3,124,000	
1	Conduct appraisals on 12,563 acres of potential acquisition	125,000	125,000	125,000	0	3,535,000	
2	Hazard environmental site assessment	30,000	30,000	30,000	0	80,996,000	
3	NEPA documentation for land acquisition	80,000	80,000	80,000	0	20,000	
4	Land purchase/acquisition	80,000	80,000	80,000	0	20,000	
5	Groundwater model development (WESTIM)	3,100,000	3,100,000	3,100,000	0	80,000	
6	Restoration activities of acquired lands	20,000	20,000	20,000	0	0	
7	Continue interim Program	0	0	0	0	100,000	
8	Institute three to five year demonstration program	100,000	100,000	100,000	0	100,000	
9	Central Valley Project Water Association 1521 "T" Street Sacramento, CA 95814	75,334,000	5,602,000	57,861,723	2,908,133	8,749,100	

Project Reference # 029395-E